1. A heterocyclecarboxamide derivative represented by the general formula (I) or a salt thereof.

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$$\begin{array}{c}
R^{1} \\
N - \\
N - \\
CONH_{2}
\end{array}$$
(I)

[wherein the symbols in the formula have the following meanings.

A: a lower alkylene which may have substituent(s), an arylene which may have substituent(s), a heteroarylene which may have substituent(s), or a cycloalkylene which may have substituent(s);

 $X: NR^4$, $CONR^4$, NR^4CO , O, O

a dotted line between Y and Z: presence (Y=Z) or absence

15 (Y-Z) of a bond;

 $Y-Z: N(R^5)-C(O), C(O)-N(R^5), N(R^5)-N(R^5), or C(O)-C(O);$

 $Y=Z: N=C(R^6), C(R^7)=N, N=N, or (R^7)=C(R^7);$

R¹, R⁴: H, a lower alkyl, -CO-lower alkyl, or -SO₂-lower alkyl;

20 R²: H, a lower alkyl, a halogen, a lower alkyl substituted by halogen(s), -O-lower alkyl, -S-lower alkyl, -O-aryl, -O-lower alkylene-aryl, -S-lower alkylene-aryl, nitro, or cyano group;

R³: -CO₂H, -CO₂-lower alkyl, -lower alkylene-CO₂H, -lower

25 alylene-CO₂-lower alkyl, -CONHOH, -CONHO-lower

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ζη) Α'' alkyl, -lower alkylene-CONHOH, -lower alkylene-CONHO-lower alkyl, -NH $_2$, (NH $_2$ in a prodrug form), -lower alkylene-NH $_2$, or -lower alkylene-(NH $_2$ in a prodrug form); R $_2$: the same or different, H or a lower alkyl group;

- R⁶: a lower alkyl, -OH, -O-lower alkyl, -O-aryl which may have substituent(s), -O-lower alkylene-aryl which may have substituent(s), -NR¹-aryl which may have substituent(s), -CO-lower alkyl, or -aryl group which may have substituent(s);
- 10 R7: the same or different, H or the same group as R6]
 - 2. The compound or a salt thereof according to claim 1, wherein X is NR^4 and A is a lower alkylene or cycloalkylene.
 - 3. The compound or a salt thereof according to claim 2, wherein Y=Z is N=C(\mathbb{R}^6), C(\mathbb{R}^7)=N, or C(\mathbb{R}^7)=C(\mathbb{R}^7).

The compound or a salt thereof according to

claim 1, wherein the compound is selected from 6-(2aminoethylamino)-2-(3-ethylanilino)pyridine-3-carboxamide,
6-(2-aminoethylamino)-2-(3-trifluoromethylanilino)pyridine3-carboxamide, 2-(2-aminoethylamino)-4-hydroxy-6-(3methylanilino)pyrimidine-5-carboxamide, 6-(cis-2aminocyclohexylamino)-2-(3-methylanilino)pyridine-3carboxamide, 6-(cis-2-aminocyclohexylamino)-2-(3,5dimethylanilino)pyridine-3-carboxamide, 5-(cis-2aminocyclohexylamino)-3-(3-methylanilino)pyrazine-2carboxamide, 5-(cis-2-aminocyclohexylamino)-3-(3methoxyanilino)pyrazine-2-carboxamide, 5-(cis-2-

aminocyclohexylamino) -3-(3-phenoxyanilino) pyrazine-2carboxamide, 5-(cis-2-aminocyclohexylamino) -3-(4methylsulfanylanilino) pyrazine-2-carboxamide, 5-(cis-2aminocyclohexylamino) -3-(3,5-dimethoxyanilino) pyrazine-25 carboxamide, 2-(cis-2-aminocyclohexylamino) -4-hydroxy-6-(3methylanilino) pyrimidine-5-carboxamide, 2-(cis-2aminocyclohexylamino) -4-(3-bromoanilino) -6hydroxypyrimidine-5-carboxamide, and 2-(cis-2aminocyclohexylamino) -4-(2-chlorophenoxy) -6-(3methylanilino) pyrimidine-5-carboxamide.

- 5. A pharmaceutical composition which comprises the compound according to claim 1 or a salt thereof and a pharmaceutically acceptable carrier.
- 6. A pharmaceutical composition which comprises

 the compound according to claim 1 which is a Syk inhibitor
 or a salt thereof and a pharmaceutically acceptable
 carrier.

Abstract

A nitrogen-containing six-membered heterocyclic compound having substituents $-X-A-R^3$, $-N(R^1)-(Ph$ substituted by R^2), and $-CONH_2$, or a salt thereof.

- 5 (The symbols have the following meanings.
 A: a lower alkylene which may have substituent(s), an arylene which may have substituent(s), a heteroarylene which may have substituent(s), or a cycloalkylene which may
- 10 X: NR⁴, CONR⁴, NR⁴CO, O, or S;

 R¹, R⁴: H, a lower alkyl, -CO-lower alkyl, or -SO₂-lower alkyl;

have substituent(s);

R²: H, a lower alkyl, a halogen, a lower alkyl substituted by halogen(s), -O-lower alkyl, -S-lower alkyl, -O-aryl, -O-

- 15 lower alkylene-aryl, -S-lower alkylene-aryl, nitro, or cyano group;
 - R³: -CO₂H, -CO₂-lower alkyl, -lower alkylene-CO₂H, -lower alylene-CO₂-lower alkyl, -CONHOH, -CONHO-lower alkyl, -lower alkylene-CONHOH, -lower alkylene-CONHO-lower
- 20 alkyl, -NH₂, -(NH₂ in a prodrug form), -lower alkylene-NH₂, or -lower alkylene-(NH₂ in a prodrug form))